

PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

<p>(51) International Patent Classification 6 : C12N 15/12, C07K 14/22, G01N 33/68</p>		<p>(11) International Publication Number: WO 97/32980</p>
		<p>(43) International Publication Date: 12 September 1997 (12.09.97)</p>
<p>(21) International Application Number: PCT/CA97/00163</p>		
<p>(22) International Filing Date: 7 March 1997 (07.03.97)</p>		
<p>(30) Priority Data: 08/613,009 8 March 1996 (08.03.96) US 08/778,570 3 January 1997 (03.01.97) US</p>		
<p>(60) Parent Application or Grant (63) Related by Continuation US 08/778,570 (CIP) Filed on 3 January 1997 (03.01.97)</p>		
<p>(71) Applicant (for all designated States except US): CONNAUGHT LABORATORIES LIMITED [CA/CA]; 1755 Steeles Avenue West, North York, Ontario M2R 3T4 (CA).</p>		
<p>(72) Inventors; and (75) Inventors/Applicants (for US only): MYERS, Lisa, E. [CA/CA]; 187 Elizabeth Street, Guelph, Ontario N1E 2X5 (CA). SCHRIVVERS, Anthony, B. [CA/CA]; 39 Edforth Road, N.W., Calgary, Alberta T3A 3V8 (CA). HARKNESS, Robin, E. [CA/CA]; Apartment #1706, 640 Sheppard Avenue East, Willowdale, Ontario M2K 1B8 (CA). LOOSMORE, Sheena, M. [CA/CA]; 70 Crawford</p>		
<p>Rose Drive, Aurora, Ontario L4G 4R4 (CA). DU, Run-Pan [CA/CA]; 299 Chelwood Drive, Thornhill, Ontario L4J 7Y8 (CA). YANG, Yan-Ping [CA/CA]; Apartment 1709, 120 Torresdale Avenue, Willowdale, Ontario M2R 3N7 (CA). KLEIN, Michel, H. [CA/CA]; 16 Munro Boulevard, Willowdale, Ontario M2P 1B9 (CA).</p>		
<p>(74) Agent: STEWART, Michael, I.; Sim & McBurney, 6th floor, 330 University Avenue, Toronto, Ontario M5G 1R7 (CA).</p>		
<p>(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ARIPO patent (GH, KE, LS, MW, SD, SZ, UG), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).</p>		
<p>Published <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i></p>		
<p>(54) Title: TRANSFERRIN RECEPTOR GENES OF MORAXELLA</p>		
<p>(57) Abstract</p>		
<p>Purified and isolated nucleic acid molecules are provided which encode transferrin receptor proteins of <i>Moraxella</i>, such as <i>M. catarrhalis</i> or a fragment or an analog of the transferrin receptor protein. The nucleic acid sequence may be used to produce recombinant transferrin receptor proteins Tbp1 and Tbp2 of the strain of <i>Moraxella</i> free of other proteins of the <i>Moraxella</i> strain for purposes of diagnostics and medical treatment. Furthermore, the nucleic acid molecule may be used in the diagnosis of infection.</p>		